



Research Bacteriology -  
Bldg. 54 - Rm. 16

VETERANS ADMINISTRATION

H O S P I T A L  
Hines, Illinois

YOUR FILE REFERENCE:

September 19, 1952

IN REPLY REFER TO:

Dr. Joshua Lederberg  
Department of Genetics  
College of Agriculture  
Madison 6, Wisconsin

Dear Dr. Lederberg:

We have used no very precise methods in preparing the McLeod's synthetic medium except for using reagents of highest purity for our work with M N Q. The composition of the medium was as follows:

Ammonium sulfate	4.72 grams
Asparagine	2.0 "
Sodium chloride	5.0 "
Glucose	2.0 "
$\text{KH}_2\text{PO}_4$ (M) <u>5</u>	100. ml.
Va OH (N) <u>1</u>	16.4 ml. (or to pH 7.8)

0.5% solutions of  $\text{MgCl}_2$ ,  $\text{Fe Cl}_2$  and  $\text{Ca Cl}_2$  were freshly prepared separately, then mixed, and 1.0 ml of the mixture was added to the medium.

Distilled water 1000 ml.

Chemicals were weighed only roughly on a triple beam balance accurate to 0.01 gram, even for the M/5  $\text{KH}_2\text{PO}_4$  solution.

pH should be about 7.8 before autoclaving, using the amount of NaOH designated; if not, NaOH was added to this point.

pH after autoclaving at 12 lbs. for 20 minutes, 7.6.

Medium was distributed by hand-pipetting with 25 ml measuring pipettes in 24.5 ml. amounts into 8" x 1" test tubes.

Difco nutrient agar, (B 69), was used for streaking cultures and for slants.

I trust that your efforts will meet with more success this time.

Sincerely,

*B. C. Colwell*

CHARLOTTE A. COLWELL, Ph. D.

An inquiry by or concerning an ex-service man or woman should, if possible, give veteran's name and file number, whether C, XC, K, N, or V. If such file number is unknown, service or serial number should be given.